

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) An apparatus for use in a wellbore, comprising:

an expandable a wellbore tubular having a bistable device configured for deployment proximate a wellbore wall, the expandable bistable device having a plurality of bistable cells arranged in a generally tubular shape, the plurality of bistable cells being stable in a first collapsed configuration and in a second an expanded configuration, wherein the force required to move the plurality of bistable cells between the first configuration and the second configuration is greater in one direction than the other.
2. (Original) The apparatus as recited in claim 1, wherein each bistable cell comprises at least two elongated members connected to each other.
3. (Currently amended) The apparatus as recited in claim 2, wherein the first collapsed configuration is a first generally tubular configuration and the second expanded configuration is a second generally tubular configuration having a larger diameter than the first generally tubular configuration.
4. (Currently amended) The apparatus as recited in claim 3, further comprising a conveyance device able to transport the ~~expandable~~ bistable device to a desired location in the wellbore.
5. (Currently amended) The apparatus as recited in claim 4, ~~wherein the apparatus~~ further comprising ~~comprises~~ a deployment device able to initiate expansion of the ~~expandable~~ bistable device from its first generally tubular configuration to its second generally tubular configuration.

6. (Original) The apparatus as recited in claim 4, wherein each cell comprises a first member and a second member, the first member and the second member each comprising a mid-point and two ends, and further wherein the first member is more flexible than the second member.

7. (Original) The apparatus as recited in claim 6, wherein the first and second members are mechanically connected such that the second member hinders deformation of the first member.

8. (Original) The apparatus as recited in claim 7, wherein the first member has two stable positions, the first stable position being where the first member mid-point is adjacent to the second member mid-point, the second stable position being where the first member mid-point is displaced from the second member mid-point to form a gap between the first member mid-point and the second member mid-point.

9. (Original) The apparatus as recited in claim 6, wherein the second member has a greater thickness than the first member.

10. (Original) The apparatus as recited in claim 6, wherein the thickness ratio of the second member to the first member is greater than approximately 3:1.

11. (Original) The apparatus as recited in claim 6, wherein the thickness ratio of the second member to the first member is greater than approximately 6:1.

12. (Original) The apparatus as recited in claim 4, wherein the bistable device further comprises a wrapping attached to the outer surface of the bistable device.

13. (Original) The apparatus as recited in claim 12, wherein the wrapping comprises an expandable screen.

14. (Original) The apparatus as recited in claim 4, wherein the bistable device further comprises a deformable material attached to the outer surface of the bistable device.

15. (Original) The apparatus as recited in claim 14, wherein the deformable material comprises an elastomer.

16. (Original) The apparatus as recited in claim 15, wherein the elastomer is selected to be resistant to crude oils, brines, and acids encountered in oil and gas wells.

17. (Original) The apparatus as recited in claim 4, wherein the bistable device in its second generally tubular configuration comprises a plurality of diameters.

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (Canceled)

26. (Canceled)

27 ~~29~~. (Canceled)

28 ~~30~~. (Canceled)

29 ~~31~~. (Canceled)

30 ~~32~~. (Currently amended) A method of facilitating use of a wellbore, comprising:

isolating a portion of a wellbore with an expandable bistable device having a generally tubular shape formed by a plurality of bistable cells that permit the expandable bistable device to be selectively actuated between a contracted state and an expanded state.

31 ~~33~~. (Currently amended) A method of sealing a portion of a wellbore tubular, comprising:

locating a bistable device within a wellbore tubular adjacent to a zone to be sealed; and

expanding the bistable device against the wellbore tubular by moving the bistable device through a nonstable region towards an expanded stable state.

32 ~~34~~. (Currently amended) An apparatus for use in a wellbore, comprising:

a wellbore conduit having ~~a at least one bistable wall device~~, the bistable wall enabling transition of the wellbore conduit from a radially contracted stable state, in which the wellbore conduit is readily insertable into a wellbore, and a radially expanded state, in which the bistable wall is proximate the wall of the wellbore.

33 ~~35~~. (Canceled)

34 ~~36~~. (Currently amended) The apparatus as recited in claim 32 ~~35~~, ~~wherein the apparatus further comprising~~ comprises a conveyance device able to transport the wellbore conduit ~~apparatus~~ to a location in a borehole.

35 ~~37~~. (Currently amended) The apparatus as recited in claim 36, wherein the apparatus further comprises a deployment device that initiates the expansion or collapse of the bistable device.

36 ~~38~~. (Canceled)

37 ~~39~~. (Canceled)

38 ~~40~~. (Canceled)

39 41. (Currently amended) A wellbore tubular, comprising:

~~and~~ a radially expandable bistable tubing; and

a device mounted to the tubing, the device being configured to sense a wellbore parameter.

40 42. (Canceled)

41 43. (Currently amended) A method of routing a communication line in a well, comprising:

deploying an expandable tubing formed of bistable cells into ~~in~~ a well;

connecting ~~routing at least a portion of~~ a communication line along adjacent ~~at~~ least a portion of the expandable tubing; and

expanding the expandable tubing in the well.

42 44. (Canceled)

43 45. (Currently amended) The method as recited in claim 41 43, wherein routing comprises routing a cable along an exterior of the expandable tubing.

44 46. (Currently amended) The method as recited in claim 41 44, further comprising attaching the communication line to the expandable tubing as the expandable tubing is deployed in the well.

45 ~~47~~. (Currently amended) The method as recited in claim 41 ~~44~~, further comprising forming a communication line passageway in the expandable tubing to receive the communication line.

46 ~~48~~. (Currently amended) The method as recited in claim 45 ~~47~~, wherein forming comprises forming the communication line along a thick strut formed between a plurality of bistable cells.

47 ~~49~~. (Currently amended) The method as recited in claim 41 ~~44~~, further comprising providing a device attached to the expandable tubing.

48 ~~50~~. (Currently amended) The method as recited in claim 47 ~~49~~, wherein providing comprises attaching a sensor.

49 ~~51~~. (Currently amended) The method as recited in claim 47 ~~49~~, wherein providing comprises attaching an instrument.